



#30/G

SEQUENCE LISTING

<110> Teng, Chang-Leou
Cook, Phillip Dan
Tillman, Lloyd
Hardee, Gregory E.
Ecker, David J.
Manoharan, Muthiah

<120> Compositions And Methods For Non-Parental Delivery Of Oligonucleotides

<130> ISIS3510

<140> 09/315,298

<141> 1999-05-20

<150> 08/082,624

<151> 1998-05-21

<160> 54

<170> PatentIn version 3.1

<210> 1

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Sequence

<220>

<221> misc_feature

<222> (1)..(20)

<223> Phosphorothioate linkage

<400> 1

gcccaagctg gcatccgtca

20

<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Sequence

<220>

<221> misc_feature

<222> (1)..(20)

<223> Phosphorothioate linkage

<400> 2

ccccaccac ttcccctctc

20

<210> 3

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Sequence

<400> 3

agccatagcg aggctgaggt t

21

<210> 4
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Sequence

<400> 4
aacatctccg taccatgcc

20

<210> 5
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Sequence

<400> 5
cccaggcatt ttaagttgct g

21

<210> 6
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Sequence

<400> 6
gtttaaggca gcatcctaag a

21

<210> 7
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Sequence

<400> 7
tcacccaaag gtttaggctt g

21

<210> 8
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Sequence

<400> 8
gcaatcatga cttcaagagt t

21

<210> 9
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Sequence

<400> 9
gtgccggggt cttcgggc

18

<210>	10	
<211>	19	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Antisense Sequence	
<400>	10	
	catggtttcg gagggcgtc	19
<210>	11	
<211>	20	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Antisense Sequence	
<400>	11	
	tcgcgctccc tctctccggc	20
<210>	12	
<211>	20	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Antisense Sequence	
<400>	12	
	cacccaagag agcagaaagt	20
<210>	13	
<211>	20	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Antisense Sequence	
<400>	13	
	cccttcctac cgcgtgcgac	20
<210>	14	
<211>	20	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Antisense Sequence	
<400>	14	
	cctccgaccc atccacgtag	20
<210>	15	
<211>	20	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Antisense Sequence	
<400>	15	
	gttgacgtcc tacggaaca	20

<210> 16
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Sequence

<220>
<221> misc_feature
<222> (1)..(20)
<223> Phosphorothioate linkage

<400> 16
tccgtcatcg ctcctcaggg 20

<210> 17
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Sequence

<400> 17
tgctgttcgt gccccgcgg 20

<210> 18
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Sequence

<400> 18
ctaaggcaca aggcgggctg 20

<210> 19
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Sequence

<220>
<221> misc_feature
<222> (1)..(20)
<223> Phosphorothioate linkage

<400> 19
tccgcctgt gacatgcatt 20

<210> 20
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Sequence

<400> 20

cctctctgtt taaaacttta tccat	25
<210> 21	
<211> 21	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Antisense Sequence	
<400> 21	
ttcatatcct gagtcatgtc g	21
<210> 22	
<211> 18	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Antisense Sequence	
<400> 22	
gcuauuaccu uaaccag	18
<210> 23	
<211> 17	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Antisense Sequence	
<400> 23	
cauuauugcc cugaaag	17
<210> 24	
<211> 21	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Antisense Sequence	
<400> 24	
taaaaagaat atgatcttca t	21
<210> 25	
<211> 18	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Antisense Sequence	
<400> 25	
agcaactgag ccacctga	18
<210> 26	
<211> 21	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Antisense Sequence	

<400> 26 gccatagggg gcagggaagg c	21
<210> 27 <211> 25 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Sequence	
<400> 27 ctctcgacc catctctctc cttct	25
<210> 28 <211> 26 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Sequence	
<400> 28 ctctcgacc catctctctc cttcta	26
<210> 29 <211> 26 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Sequence	
<400> 29 gctctcgac ccatctctct ccttct	26
<210> 30 <211> 17 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Sequence	
<400> 30 gtggtgggtg ggtgggt	17
<210> 31 <211> 26 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Sequence	
<400> 31 gcctattctg ctatgtcgac acccaa	26
<210> 32 <211> 26 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Sequence	

<400> 32
 cttcgggcct gtcgggtccc ctcggg 26

<210> 33
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Antisense Sequence

<400> 33
 gctggtgatc ctttccatcc ctgtgg 26

<210> 34
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Antisense Sequence

<400> 34
 ctactactcc ttgactttgg ggattg 26

<210> 35
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Antisense Sequence

<400> 35
 cttcgggcct gtcgggtccc ctcggg 26

<210> 36
 <211> 26
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Antisense Sequence

<400> 36
 cuucgggccu gucggguccc cucggg 26

<210> 37
 <211> 8
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Antisense Sequence

<400> 37
 ttgggggtt 8

<210> 38
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Antisense Sequence
 <400> 38
 gtgctcatgg tgcacggtct 20

 <210> 39
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Antisense Sequence

 <400> 39
 cattcaaag gttgcctgc 20

 <210> 40
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Antisense Sequence

 <400> 40
 gcaggcaaac catttgaag 20

 <210> 41
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Antisense Sequence

 <400> 41
 ttgggtcca tcatttcag caaag 25

 <210> 42
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Antisense Sequence

 <400> 42
 catcatcttc agcaaagata 20

 <210> 43
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Antisense Sequence

 <400> 43
 acgcgaaaa atgcgtacaa 20

 <210> 44
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Antisense Sequence

 <400> 44
 taaaccaaaa aaatggggca 20

 <210> 45
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Antisense Sequence

 <400> 45
 tggggcttac cttgcgaaca 20

 <210> 46
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Antisense Sequence

 <400> 46
 gacgtggggc ttaccttgcg 20

 <210> 47
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Antisense Sequence

 <400> 47
 tcttcaacga cgtggggctt 20

 <210> 48
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Antisense Sequence

 <220>
 <221> misc_feature
 <222> (1)..(21)
 <223> Phosphorothioate linkage

 <400> 48
 gcgtttgctc ttcttcttgc g 21

 <210> 49
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Antisense Sequence

 <220>
 <221> misc_feature

<222> (1)..(20)
<223> Phosphorothioate linkage

<400> 49
gttctcgctg gtgagtttca

20

<210> 50
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Sequence

<220>
<221> misc_feature
<222> (9)..(9)
<223> 5'-methyl

<220>
<221> misc_feature
<222> (13)..(13)
<223> 5'-methyl

<220>
<221> misc_feature
<222> (15)..(15)
<223> 5'-methyl

<220>
<221> misc_feature
<222> (9)..(15)
<223> 2'-O-methoxyethyl

<220>
<221> misc_feature
<222> (1)..(15)
<223> Phosphorothioate linkage

<400> 50
aacttggtgct tgctc

15

<210> 51
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Sequence

<220>
<221> misc_feature
<222> (4)..(4)
<223> 5'-methyl

<220>
<221> misc_feature
<222> (6)..(6)
<223> 5'-methyl

<220>

<221> misc_feature
<222> (13)..(13)
<223> 5'-methyl

<220>
<221> misc_feature
<222> (15)..(15)
<223> 5'-methyl

<220>
<221> misc_feature
<222> (19)..(19)
<223> 5'-methyl

<220>
<221> misc_feature
<222> (1)..(20)
<223> Phosphorothioate linkage

<400> 51
gtgctcatgg tgcacggtct

20

<210> 52
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Sequence

<220>
<221> misc_feature
<222> (1)..(4)
<223> 2'-O-methoxyethyl

<220>
<221> misc_feature
<222> (17)..(20)
<223> 2'-O-methoxyethyl

<220>
<221> misc_feature
<222> (6)..(7)
<223> 5'-methyl

<220>
<221> misc_feature
<222> (11)..(11)
<223> 5'-methyl

<220>
<221> misc_feature
<222> (13)..(15)
<223> 5'-methyl

<220>
<221> misc_feature
<222> (19)..(19)
<223> 5'-methyl

<220>
<221> misc_feature
<222> (1)..(20)
<223> Phosphorothioate linkage

<400> 52
gtgtgccaga caccctatct

20

<210> 53
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Sequence

<220>
<221> misc_feature
<222> (1)..(5)
<223> 2'-O-methoxyethyl

<220>
<221> misc_feature
<222> (2)..(2)
<223> 5'-methyl

G¹
<220>
<221> misc_feature
<222> (16)..(20)
<223> 2'-O-methoxyethyl

<220>
<221> misc_feature
<222> (18)..(20)
<223> 5'-methyl

<220>
<221> misc_feature
<222> (1)..(20)
<223> Phosphorothioate linkage

<400> 53
gctgattaga gagaggtccc

20

<210> 54
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Sequence

<220>
<221> misc_feature
<222> (1)..(20)
<223> Phosphorothioate linkage

<400> 54
ttgcttccat cttcctcgtc

20